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(71) 出願人 (米国を除くすべての指定国について) 株式会社 安川電機

(KABUSHIKI KAISHA YASKAWA DENKI)[JP/JP] 〒806-0004 福岡県北九州市八幡西区黒崎城石2番1号 Fukuoka, (JP)

(72) 発明者;および

(75) 発明者/出願人(米国についてのみ)

郝 双暉(HAO, Shuang-Hui)[JP/JP]

小黒龍一(OGURO, Ryuichi)[JP/JP]

宮河秀和(MIYAGAWA, Hidekazu)[JP/JP]

〒806-0004 福岡県北九州市八幡西区黒崎城石2番1号

株式会社 安川電機内 Fukuoka, (JP)

(81) 指定国 CN, KR, US, 欧州特許 (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE)

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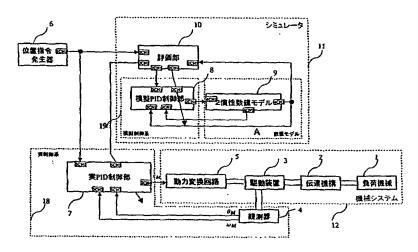
国際調査報告書

(54) Title: MOTOR CONTROLLER

(54)発明の名称 電動機制御装置

(57) Abstract

A motor controller comprising a machine system (12) having a load machine (1), a transmission mechanism (2) for transmitting power, and a motor for driving the load machine through the transmission mechanism; a simulator unit (11) having a numeric model (9) including the machine system, a simulation control section (19) for giving a torque command to the numeric model by using an observable quantity of state of the numeric model, and an evaluating section (10) for sending a control parameter to the simulation control section and an actual control unit; and the actual control unit (18) having an actual control section which receives an observable quantity of state of an actual system and has the same structure as that of the simulator unit and adapted to supply a torque signal to the motor serving as a drive source. Therefore the control gain of a motor controller can be automatically adjusted quickly and optimally.



A ... NUMERIC MODEL

1 ... LOAD MACHINE

2 ... TRANSMISSION MECHANISM

3 ... DRIVE

... OBSERVING INSTRUMENT

5 ... POWER CONVERTING CIRCUIT

6 ... POSITION COMMAND GENERATOR

7 ... ACTUAL PID CONTROL SECTION

8 ... SIMULATION PID CONTROL PART

9 ... TWO-INERTIAL NUMERIC MODEL

10 ... EVALUATING SECTION

11 ... SIMULATOR

12 ... MACHINE SYSTEM

18 ... ACTUAL CONTROL SYSTEM

19 ... SIMULATION CONTROL SECTION